

## **Abstract:**

**Title:** The frequency of Ankyloglossia and associated disorders in children 6 to 12 years in Ardabil City 2018.

**Introduction:** Ankyloglossia is a developmental anomaly of tongue which causes a deficiency in tongue mobility. This anomaly can create speech problems, periodontal diseases and orthodontic disorders. Therefore, this study aimed to determine the frequency of Ankyloglossia and associated disorders in children 6 to 12 years in Ardabil City 2018.

**Methods:** In this descriptive cross-sectional study conducted in 2018, 381 male and female students were selected via cluster sampling who aged 6-12 years and studied in primary schools of Ardabil. Ankyloglossia diagnosis was based on presence of short and thick lingual frenum as well as deficiency in lingual mobility. The study data were analyzed via SPSS statistical software (ver.22) applying Chi-square and cramer's v test.

**Results:** The total prevalence of ankyloglossia among 381 students was reported 0.3%, which was significantly higher within the ankyloglossia than girls ( $P$ -value $<0.05$ ). Also, the results of this study showed that there is a significant relationship between gender, dental occlusion, bite type, anterior crowding, diastema with ankyloglossia intensity ( $P < 0.05$ ).

**Conclusion:** According to the indices, the results of this study indicate that ankyloglossia is associated with disorders such as dental occlusion, bite type, anterior crowding, and diastema.

**Keywords:** Ankyloglossia, Dental occlusion; Bite type; Anterior Crowding, Diastema.